

Applicants : BIANCHI, et al.
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In the claims:

1. (Currently Amended) A composition comprising an effective amount of the High Mobility Group One (HMGB1) protein or ~~functional~~ parts thereof, ~~or HMGB1-expressing vectors,~~ for the treatment of tissue damage ~~and/or~~ to promote tissue repair and tissue regeneration.
2. (Currently Amended) Composition according to claim 1 wherein the tissue regeneration ~~depends from~~ is due to the growth of cells of the same type as those damaged, excluding connective tissue.
3. (Previously Presented) Composition according to claim 2 wherein the tissue is cardiac or skeletal muscle.
4. (Currently Amended) Composition according to claim 3 wherein the tissue repair ~~and/or~~ tissue regeneration includes the repair ~~and/or~~ tissue regeneration of areas of necrosis.
5. (Previously Presented) Composition according to claim 4 wherein the areas of necrosis comprise trauma sites, ischemia sites including infarcted heart, burn sites.
6. (Currently Amended) Composition according to claim 1, further comprising an effective amount of an anti-inflammation agent.
7. (Currently Amended) Composition according to claim 1 further comprising diluents ~~and/or~~ adjuvants for perfusion at the tissue repair site.
8. (Currently Amended) Composition according to claim 1 further comprising diluents ~~and/or~~ adjuvants ~~and/or~~ carriers for intramuscular injection.
- 9-18 (Cancelled).

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19. (New) A method for the treatment of tissue damage and/or to promote tissue repair and tissue regeneration comprising ~~contain~~ the administering of the composition for claim 1 with said tissue.

20. (New) The method of claim 19, wherein the tissue regeneration is due to the growth of cells of the same type as those damaged, excluding connective tissue.

21. (New) The method of claim 20, wherein the tissue is cardiac or skeletal muscle.

22. (New) The method of claim 21, wherein the tissue repair or tissue regeneration includes the repair or tissue regeneration of areas of necrosis.

23. (New) The method of claim 22, wherein the areas of necrosis comprise trauma sites, ischemia sites including infracted heart, burn sites.

24. (New) The method of claim 23, further comprising an effective amount of an anti-inflammation agent.

25. (New) The method of claim 24, further comprising diluents or adjuvants for perfusion at the tissue repair site.

26. (New) The method of claim 25, further comprising diluents or adjuvants or carriers for intramuscular injection.